

Robert Greene Sterne Jorge A. Goldstein David K.S. Cornwell Robert W. Esmond Tracy-Gene G. Durkin Michael B. Ray Robert E. Sokohl Eric K. Steffe Michael D. Lee Eric K. Steffe
Michael Q. Lee
John M. Covert
Robert C. Millonig
Donald J. Featherstone
Timothy J. Shea, Jr.
Michael V. Messinger
Judith U. Kim
Mark Fox Evens
Jeffrey T. Helvey
Eldora L. Ellison
Donald R. Banowit
Peter A. Jackman Peter A. Jackman Brian J. Del Buono

Elizabeth J. Haanes Michael D. Specht Kevin W. McCabe Glenn J. Penry Theodore A. Wood Gaby L. Longoworth Grant E. Red Tracy L. Mulber Jon E. Whight Helene C. Carison Cynthia M. Bouchez Lorr A. Gorden Shannon A. Carroll Acbar E. Khal Michaele K. Hotoubek Masta A. Rose Scott A. Schaller Lei Zhou James J. Pobl John C. Haran Mack W. Rygiel Michael E. Malek

April 23, 2010

Carla Ji-Eun Kim Doyle A. Siever* Paul A. Calvo C. Matthew Rozier Randali K. Baldwin Lori M. Brandes Deborah A. Sterling Jeremy M. Kiass Stephanie L. Elmer Jeffrey K. Mills Scott M. Woodhouse Peter A. Socarras Jeremiah B. Frueauf Christian A. Camarce Richard D. Coller Patrick P. Hansen Ross G. Hicks Keisha Hylton-Rodic Bonnie Nannenga-Combs Alyssa K. Sandrowitz Ishan P. Weerakoon Chenghua Luo Chenghua Luo

Salvador M. Bezos Salvador M. Bezos Bruce B. Vance Justin T. Sher Byron L. Pickard Christopher B. Ferenc Jeffrey R. Fougere* Christine Formas Norris*

Registered Patent Agents « Karen R. Markowicz

Erin C. Wong

Of Counsel Edward J. Kessler Christopher P. Wrist David C. Isaacson Jason D. Eisenberg Kenley H. Hoover

Federal Agencies

Joseph E. Mutschelknaus

Kavon Nasabzadeh Aaron S. Ward Romit Majumdar

Kater R. Marhowicz Damelle L. Letting Sheven C. Oppenheimer Aaron S. Lukas Lonathan Tuninaro Gaurav Astiana Yassar Mourtada Cynthia L. DeRenzo Ornar F. Anth R. Wilson Fowers III Für C. Wilson *Admitted only in Maryland Admitted only in Virginia

> WRITER'S DIRECT NUMBER: (202) 772-8846 INTERNET ADDRESS: PCALVO@SKGF,COM

Art Unit 1632

Attn: Mail Stop AF

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Re:

U.S. Utility Patent Application

Application No. 10/561,780; Filing or 371(c) Date: July 2, 2007 Tissue Modeling in Embryonic Stem (ES) Cell System

Inventors: KOLOSSOV et al. Our Ref: 2590.0030002/EJH/PAC

Sir:

Transmitted herewith for appropriate action is an Amendment and Reply Under 37 C.F.R. § 1.116. This document is filed electronically through EFS-Web.

In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Paul A. Calvo

Attorney for Applicants Registration No. 57,913

al A. Calus

EJH/PAC/vb Enclosure

1105900 1.doc